Name of work:- Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

2nd and Final Bill

ABSTRACT

Sl No	Items Description	Unit	Present Bill		
			Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.				
		Cum	0.00	230.49	0.00
2	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2 KPWD S.R 2018-19 Page No. 7 I.No. 2.15				
		Cum	0.00	2698.33	0.00
3	Providing Nominal 40mm size stone aggrigates (Page no II, SI NO.25)Code NO.0750				
		Cum	0.00	1143.82	0.00
4	Providing Nominal 20mm size stone aggrigates (Page no II, SI NO.28) Code NO.0749				
		Cum	0.00	1143.82	0.00
5	KSRB 7.9 : Providing And fixing ms grill work for windows and ventilators using ms flats or ms square rods or combination of ms flats and square rods as per approved design drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer cost of materials fixtures, labours, and complete as per specifications page no.34 item no.7.9				
		Cum	0.00	105.53	0.00
6	KSRRB M2900-1. Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 KPWD S.R 2018-19 Page No. 254 I.No. 34.1				
		Cum	1.19	4694.58	5587.00
7	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm KPWD S.R 2018-19 Page No. 271 I.No. 37.59.2				
		Cum	0.00	7409.57	0.00
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)				
		tonne	0.00	76441.87	0.00
9	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.60 x 0.1)Data rate				
	Qty Vide this and Emb Pg no.01	sqm	277.92	2449.18	680767.00

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Sl No	Items Description		Present Bill		
		Unit	Qty	Rate	Amount
10	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25)Data rate				
		sqm	0.00	5678.06	0.00
11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)				
	Qty Vide this and Emb Pg no.02	**No.**	**176.00**	**453.24**	**79770.00**
12	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete with all lead and lift as per the direction of engineer-in-charge				
	Qty Vide this and Emb Pg no.03	**Sqm**	**1191.30**	**88.87**	**105871.00**
13	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19				
		cum	0.00	68.30	0.00
14	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)				
		sqm	0.00	6.67	0.00
15	Construction of granular sub-base Grading-V as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications.Clause 401 of MORTH V Revision. Page No. 153/ Item No. 20.5/ PWD SR 2018-19				
		cum	0.00	2090.68	0.00
16	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19				
		cum	0.00	2097.34	0.00
17	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.				
	Qty Vide this and Emb Pg no.08	**Sqm**	**12636.55**	**31.10**	**392997.00**

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Sl No	Items Description	Unit	Present Bill		
			Qty	Rate	Amount
18	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. Clause 505 of morth V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen.complete with all lead and lift as per the direction of engineer-in-charge				
	Qty Vide this and Emb Pg no.10	**Cum**	**631.83**	**6715.27**	**4242893.00**
19	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete with all lead and lift as per the direction of engineer-in-charge				
	Qty Vide this and Emb Pg no.12	**Sqm**	**12636.55**	**5.55**	**70133.00**
20	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete with all lead and lift as per the direction of engineer-in-charge				
	Qty Vide this and Emb Pg no.14	**Sqm**	**12636.55**	**13.33**	**168445.00**
21	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen complete with all lead and lift as per the direction of engineer-in-charge				
	Qty Vide this and Emb Pg no.16	**Cum**	**379.10**	**7708.40**	**2922228.00**
22	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete with all lead and lift as per the direction of engineer-in-charge				
	Qty Vide this and Emb Pg no.18	**Sqm**	**426.24**	**476.57**	**203133.00**
		Total Amount Rs.			**8871733.00**
		GST 12%			**1064607.96**
		Grand Total			**9936340.96**
	CERTIFICATE				
1	Certified that the work done satisfactory by the agency				
2	Certified that there are no departmental issue by BBMP				

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